4.5 Properties of 2D Shapes: 10-minute Pack

Calculators not allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Triangle ABC is isosceles with AB = AC. Angle ABC is 40 degrees. Find angles BAC and ACB.

(3)

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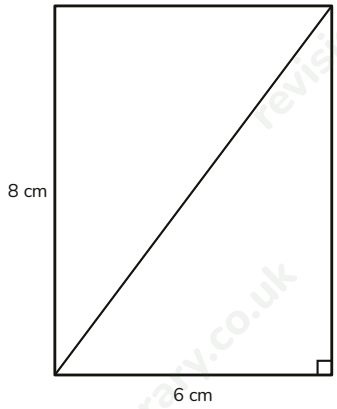
2 A parallelogram has one angle equal to 70 degrees. Work out the measures of the other three interior angles.

(2)

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3 A rectangle has sides 6 cm and 8 cm. Calculate the length of a diagonal of the rectangle.

Diagram NOT accurately drawn



(3)

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Mark scheme · 4.5 Properties of 2D Shapes: 10-minute Pack

Question 1

uses base angles equal since AB = AC or states ACB = ABC oe	**M1**
sets up BAC + 40 + 40 = 180 or computes BAC = 180 - 40 - 40 oe	**M1**
BAC = 100 degrees, ACB = 40 degrees cao	**A1**

Answer: **BAC = 100 degrees; ACB = 40 degrees**

Question 2

uses fact opposite angles equal and adjacent angles sum to 180 or computes 180 - 70 = 110 oe	**M1**
other angles are 70, 110, 110 degrees in any order cao	**A1**

Answer: **70 degrees, 110 degrees, 110 degrees**

Question 3

uses Pythagoras: diagonal^2 = 6^2 + 8^2 or states method oe	**M1**
calculates 36 + 64 = 100 oe	**M1**
10 cm cao	**A1**

Answer: **10 cm**

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